

## ABSTRACT

A handheld dual voltage circuit tester, method and electronic circuit that quickly allows a technician to determine whether an automotive electrical system runs on a 12-14 volt circuit or 36-42 volt circuit. The tester may be used for automobiles having a single voltage electrical system, or automobiles with distinct electrical systems operating on one of a 12-14 volts circuit or a 36-42 volt circuit. The tester includes a screwdriver-type elongated handle and probe tip. The tester also includes electronic circuitry disposed within its handle, heat shrink tubing, a conductive spring assembly, a strain relief, a retractable coil cord, a ground clip and insulation that encloses the ground clip. The tester also includes electronic circuitry that emits light of a first color when a 12-14 volt circuit is sensed, and light of a second color when a 36-42 volt circuit is sensed.